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**Subject:** Fw: CE-QUAL-W2 results for regionwide February phosphorus removal

Dave, Kelly, Tony, Melissa:

See below for modeling results and a memo from Dave Dilks at LimnoTech.

According to the memo, "For the Washington dischargers, rigorous phosphorus treatment was initiated in February instead of March, and municipal dischargers were given a WLA of 50 ug/L. Inland Empire Paper was given a WLA of 70 ug/L." Idaho discharge levels are summarized in a table in the memo and are the same as what was proposed in LimnoTech's memo of October 5th, 2010 (which was the first proposal that included treatment in February, for Idaho). According to the memo, "The results of the new scenario comply with all three draft tests for 'Compliance with Washington Water Quality Standards' as proposed by EPA."

LimnoTech adapted a spreadsheet that I'd prepared last October, in order to demonstrate compliance. We may need to discuss the details of that spreadsheet to be certain that it still reflects both of our Agencies' interpretations of the test for equivalence. However, taken at face value, this is an encouraging result.

Thanks,

Brian Nickel, E.I.T.

Environmental Engineer

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----- Forwarded by Brian Nickel/R10/USEPA/US on 04/13/2011 02:28 PM -----

From: Dave Dilks <ddilks@limno.com>

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Date: 04/13/2011 08:56 AM

Subject: CE-QUAL-W2 results for regionwide February phosphorus removal

Brain/Ben:

Attached is a spreadsheet containing results for our most recent CE-QUAL-W2 simulation that considers regionwide February phosphorus removal, that Gary Allen asked me to send you pursuant to his conversation with Mark Ryan. I've attached the memorandum that summarizes the inputs as well.

The linked spreadsheet file is the same as the "Test\_4\_Equivalence\_Calcs\_non-opt.xls" file (which implements the 3 tests) emailed to us by Brian Nickel last November, except for the following (plus calculation updates that the spreadsheet does automatically after new inputs are made):

Tab "TMDL#1 vs No Source" – no changes

Tab "Avista Resp" – no changes

Tab "TMDL#1 vs Limnotech Alt nopt" – our new run which includes the effect of February treatment is substituted (via the DO special output table) for the original LimnoTech alternative

Tab "Total TMDL + ID Delta" – changed the "Yes" or "No" under "Compliance" to reflect the adjacent numerical results

Tab "Total TMDL + ID Delta Simple" – no changes

Please let me know if you have any questions on the attached materials.



Dave [Test\\_4\\_Equivalence\\_Calcs\\_non-opt\\_February-treatment.xls](#)

[Alternate\\_Idaho\\_scenario\\_under\\_consideration\\_040611.doc](#)